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CURRICULUM VITAE

NAME: John Lawton Butler

ORGANIZATION: National Oceanic & Atmospheric Administration
National Marine Fisheries Service
Southwest Fisheries Science Center
P. O. Box 271
La Jolla, California
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PRESENT POSITION: Research Fishery Biologist

DISCIPLINE: Marine Biology

EDUCATION:

B.S., Oceanography, University of Washington, 1967
M.S., Biological Oceanography, Oregon State University, 1971
Ph.D., Marine Biology, Scripps Institution of Oceanography, 1987

TITLE OF PH.D. DISSERTATION:

Comparison of the early life history parameters of Pacific sardine and northern anchovy and implications for species interaction.

EXPERIENCE:

1986-present Fishery Biologist Research
 National Marine Fisheries Service
 Southwest Fisheries Science Center
 La Jolla, California

1976-1986 Fishery Biologist
 National Marine Fisheries Service
 Southwest Fisheries Science Center
 La Jolla, Ca 92038

1972-1976 Museum Technician
 Smithsonian Institution

La Jolla, California

1971-1972 Research Assistant
 School of Oceanography
 Oregon State University
 Corvallis, Oregon 97330

1969-1970 Teaching Assistant
 Portland State University
 Portland, Oregon

RESEARCH INTERESTS:

Modeling of life history stages of fish
Ecology of fishes
Recruitment to fish populations

HONORS AND AWARDS:

Performance Award 6/85
Quality Increase 6/16/91
Performance Award 6/92
Special Act Award 9/4/94

FORMAL TRAINING RECEIVED FROM THE FEDERAL GOVERNMENT:

COTR Refresher Course, 3/29/90
EEO and TQM, 5/20/92
ROV, 6/10/92

PROFESSIONAL AFFILIATIONS:

American Fisheries Society
American Institute of Fishery Research Biologists

SERVICES ON SCIENTIFIC COMMITTEES:

Participant in National Science Foundation Workshop on Visual Database Systems for Marine Sciences, Sept. 28-29, 1992

Chairman, Doctoral Thesis Committee for Eva Cotero, CISESE, 1993 to Present.

Participant in the meeting of the Committee on Undersea Vehicles and National Needs of the National Research Council, July 20, 1993.

Participant in Sardine Management and Assessment Workshop, California Fish and Game. October 12, 1993.

Secretary-Treasurer Southern California District, American Institute of Fishery Research Biologists, August 4, 1993 to August 1995.

Participant in Science Review Panel at the National Undersea Research Center at the University of Connecticut, Avery Point, Connecticut, Oct 25-27, 1994.

Participant in Workshop on Age Determination and Longevity in Deep Sea Fishes. St. Petersburg, Fl. January 26-27, 1995.

TITLE OF PH.D. DISSERTATION:

Comparison of the early life history parameters of Pacific sardine and northern anchovy and implications for species interaction.

PUBLICATIONS:

Butler, J. L. and W. G. Pearcy. 1972. Swim bladder morphology and specific gravity of myctophids off Oregon. *J. Fish. Res. Bd. Canada* 29: 1145-1150.

Butler, J. L. and E. H. Ahlstrom. 1975. A review of the deep-sea fish genus *Scopelengys* (Neoscopelidae) with a description of new species, *Scopelengys clarkei*, from the central Pacific. *Fish. Bull. U. S.* 74: 142-150.

Ahlstrom, E. H., J. L. Butler, and B. Y. Sumida. 1976. Pelagic stromateoid fishes (Pisces, Perciformes) of the Eastern Pacific: Kinds, distributions, and early life histories and observations on five of these from the Northwest Atlantic. *Bull. Mar. Sci.* 26: 285-402.

Rosenblatt, R. H. and J. L. Butler. 1977. The ribbonfish genus *Desmodema* with the description of a new species (Pisces, Trachipteridae). *Fish. Bull. U. S.* 75: 843-856.

Butler, J. L. 1979. The nomeid genus *Cubiceps* (Pisces) with a description of a new species. *Bull. Mar. Sci.* 29: 226-241.

Hunt, G. L. and J. L. Butler. 1980. Reproductive ecology of Western Gulls and Xantus' Murrelets with respect to food resources in the Southern California Bight. *CalCOFI Rep.* Vol. XXI: 62-67.

Moser, H. G. and J. L. Butler. 1981. Description of reared larvae and early juveniles of the Calico Rockfish, *Sebastes dallii*. *CalCOFI Rep.* Vol. XXII: 88-95.

Butler, J. L., H. G. Moser, G. S. Hageman, and L. E. Nordgren. 1982. Developmental stages of three California sea basses (Paralabrax, Pisces, Serranidae) *CalCOFI Rep.*, Vol. XXIII. 252-268.

Moser, H. G., D. A. Ambrose, M. S. Busby, J. L. Butler, E. M. Sandknop, B. Y. Sumida and E. G. Stevens. 1983. Description of early stages of white seabass, *Atractoscion nobilis*. *CalCOFI Rep.* XXIV: 182-193.

Ambrose, D. A., J. L. Butler, H. G. Moser, B. Y. Sumida, E. M. Sandknop, and E. G. Stevens. 1983. Description of the larvae of the cusk eels, *Ophidion scrippsae* and *Chilara taylori* (Family Ophidiidae). *CalCOFI Rep.* XXIV: 226-234.

Kawaguchi, K. and J. L. Butler. 1984. Fishes of the genus *Nansenia* (Microstomatidae) with descriptions of seven new species. *Nat. Hist. Mus. Los Angeles Co. Contr. in Sci.* 352: 1-22.

Butler, J. L. and B. Rojas de Mendiola. 1985. Growth of larval sardines off Peru. *CalCOFI Rep.*, Vol. XXVI. 113-117.

Castillo, G., E. Aguilera, G. Herrera, P. A. Bernal, J. L. Butler, J. Chong, H. Gonzalez, C. Oyrazun, and C. Veloso. 1985. Larval growth rates of the Pacific sardine, *Sardinops sagax*, off Central Chile, determined by daily ring counts in otoliths. *Biol. Pesc. Chile.* 14: 3-10.

Moksness, E., J. Butler, and R. L. Radtke. 1987. Estimation of age and growth rate in Norwegian spring spawning herring (*Clupea harengus* L.) larvae and juveniles. *Sarsia* 72: 341- 342.

Butler, J. L. and D. Pickett. 1988. Age specific vulnerability of Pacific sardine (*Sardinops sagax*) to predation by northern anchovy (*Engraulis mordax*). *Fish. Bull. U. S.* 86: 163-167.

Watanabe, Y., J. L. Butler and T. Mori. 1989. Age and growth of Pacific saury in the eastern and western Pacific. *Fish. Bull. U. S.* 86(3) 489-498.

Butler, J. L. 1990. Growth during the larval and juvenile stages of the northern anchovy, *Engraulis mordax*, in the California Current during 1980-84. *Fish. Bull. U. S.* 87:645-652.

Owen, R. W., N. C. H. Lo, J. L. Butler, G. H. Theilacker, A. Alvarino, J. R. Hunter, and Y. Watanabe. 1990. Spawning and survival patterns of larval northern anchovy, *Engraulis mordax*, in contrasting environments CA site-intensive study. *U.S.* 87: 673-688.

Butler, J. L., C. A. Kimbrell, and R. D. Methot. 1990. The 1987-88 demersal fish survey off Central California (34°E 30'N to 36°E 30'N). NOAA-NMFS-TECH. MEM. No. 133 44pp.

Hunter, J. R., J. L. Butler, C. Kimbrell and E. A. Lynn. 1990. Bathymetric patterns in size, age, water content, caloric density and biomass of Dover sole, *Microstomus pacificus*. *CalCOFI Rep.* 31:132-144.

Butler, J. L. 1991. Mortality and recruitment of Pacific sardine, *Sardinops sagax caerulea*, larvae in the California Current. *Can. J. Fish. Aquat. Sci.* 48: 1713-1723.

Butler, J. L., W. W. Wakefield, P. B. Adams, B. H. Robison and C. H. Baxter. 1991. Application of line transect methods to surveying demersal communities with ROVs and manned submersibles. *OCEANS 91 Conf. Proc.*

Smith, P. E., N. C. H. Lo, and J. L. Butler. 1992. Life-stage duration and survival parameters as related to interdecadal population variability in Pacific sardine. *CalCOFI Rep.* 33: 41-49.

Alvarez, F. and J. L. Butler. 1992. First attempt to determine birthdates and environmental relationship of juvenile sardine, *Sardina pilchardus* (Walb.), in the region of Vigo (NW Spain) during 1988. *Biol. Inst. Exp. Oceanogr.* 8: 115-121.

Butler, J. L. 1992. Collection and preservation of material for otolith analysis, p. 13-17. In D. K. Stevenson and S. E. Campana [ed.] Otolith microstructure examination and analysis. *Can. Spec. Publ. Fish. Aquat.* 117.

Butler, J. L., P. E. Smith, N. C.-h. Lo. 1993. The effect of natural variability of life-history parameters on anchovy and sardine population growth. CalCOFI Rep. 34:104-111.

Butler, J. L., K. A. Dahlin, and H. G. Moser. 1996. Growth and Duration of the Planktonic Phase and a Stage Based Population Matrix of Dover sole, *Microstomus pacificus*. Bull. of Mar. Sci. 58:29-43.

Adams, P.B., J.L. Butler, C.H. Baxter, T.E. Laidig, K.A. Dahlin, and W.W. Wakefield. 1995. Population estimates of Pacific coast groundfishes from video transects and swept-area trawls. Fish. Bull., U.S. 93:446-455.

Laidig, T. E., P. B. Adams, C. H. Baxter and J. L. Butler. 1995. Feeding on euphausiids by *Octopus rubescens*. Cal. Fish and Game. 81:77-79.

Lo, N.C.H., P.E. Smith and J. Butler. 1995. Population growth of northern anchovy and Pacific sardine using stage-specific matrix models. Mar. Ecol. Prog. Ser. 127:15-26.

Butler, J.L., M.L. Granados G., J.T. Barnes, M. Yaremko, and B.J. Macewicz. 1996. Age composition, growth and maturation of the Pacific sardine, *Sardinops sagax*, during 1994. Calif. Coop. Oceanic Fish. Invest. Rep. 37:152-159.

Butler, J.L., K.A. Dahlin, and H.G. Moser. 1996. Growth and duration of the planktonic phase and a stage based population matrix of Dover sole, *Microstomus pacificus*. Bull. Mar. Sci. 58:29-43.

Butler, J. and E. Moksness. 1997. Manual for OTO 3.0 and OPS programs for reading daily increments. NOAA-TM-NMFS-SWFSC-238, 57 p.

Butler, J.L. and R.N. Nishimoto. 1997. Growth and cohort dynamics of larval Pacific hake, *Merluccius productus*. Calif. Coop. Oceanic Fish. Invest. Rep. 38:63-68.

Butler, J.L., H.G. Moser, W. Watson, D.A. Ambrose, S.R. Charter, and E.M. Sandknop. 1997. Fishes collected by midwater trawls during two cruises of the *David Starr Jordan* in the northeastern Pacific Ocean, April-June and September-October, 1972. NOAA-TM-NMFS-SWFSC-244, 83 p.